



EDITED BY ROBERT M. ZINK

The following critiques express the opinions of the individual evaluators regarding the strengths, weaknesses, and value of the books they review. As such, the appraisals are subjective assessments and do not necessarily reflect the opinions of the editors or any official policy of the American Ornithologists' Union.

The Auk 112(2):524, 1995

Biotic Interactions and Global Change.—Peter M. Kareiva, Joel G. Kingsolver, and Raymond B. Huey, Editors. 1993. Sinauer Associates, Sunderland, Massachusetts. xii + 559 pp. ISBN 0-87893-429-4. \$65.00 (cloth). ISBN 0-87893-430-8. \$32.95 (paper).—This book consists of a series of 29 papers prepared in conjunction with a workshop on the impact of global environmental change on ecological and evolutionary dynamics. The workshop was held at Friday Harbor, Washington, in September 1991. The theme of the workshop, as well as of the contributed manuscripts, concerned incorporating the roles of evolutionary, population, and community processes into predictions about global change (especially climatic changes and habitat fragmentation). The participants were challenged to show how ecology matters in developing models of environmental change; that is, to demonstrate that the preparation of more complex models is necessary to avoid overly simplistic predictions. For example, biotic interactions might exacerbate or, in other cases, mitigate the environmental consequences of global warming and massive deforestation. The papers are predominantly focused on Temperate Zone systems.

The book is organized into six major sections; these concern: current patterns and forecasts for global changes, physiological and population responses to environmental change, evolutionary responses to environmental change, community responses to such change, landscape change and habitat fragmentation, and agendas for policy responses and research directions associated with global change. The individual papers in these sections are a mixed bag, typical of such broadly defined symposium volumes.

The first section of the book consists of three review papers on scenarios of global warming, worldwide patterns of deforestation, and processes of biotic responses to climatic change. These are useful overviews written for a general audience. The next four sections consist of a series of uneven papers detailing generalities, models, and experimental and other empirical studies relevant to the overall theme of the volume. Two of these contributions are of interest to avian biologists.

Terry Root briefly considers the effects of global climate change on North American birds. In earlier

work, she had found correspondence between avian geographic distributions and environmental factors such as temperature and precipitation. In this chapter she points out that some species will rapidly change their ranges with climatic warming; other species—such as Kirtland's Warbler—may be doomed to extinction because their requisite soil/vegetational associations will cease to exist. Root's short chapter illustrates a major problem of the volume: she presents a paragraph or so synopsis of an entire research program with which many readers will already be familiar. Those who are not will need to consult extensive literature to catch up.

In the other chapter of particular interest to ornithologists, McKelvey, Noon, and Lamberson present a useful report on the history of research and planning for maintaining viable populations of Spotted Owls in a fragmented old-growth landscape. The authors describe how life-history data were gathered and analyzed, models of population demographics were developed, and their sensitivity to estimates and other parameters assessed. These results subsequently were integrated into computer simulations used to predict the effects of alternate spatial patterns of habitat patches on long-term viability. Assumptions about juvenile dispersal and simulations of habitat-patch arrangements indicated that long-term persistence is quite sensitive to the spatial geometry of reserves; these simulations are now being used to devise management strategies. This is a good case history for discussion in a course on conservation biology.

The last section of the volume includes a chapter by Gordon Orians on how policy can respond to the problems detailed in this volume, as well as a chapter by the three editors on useful research directions indicated by environmental threats. Ecological researchers may find it useful to review these suggestions. NSF sponsored the symposium.

Overall, this is not a unified, coherent, or easily read work. With the exception of a few chapters, ornithologists may only want to quickly peruse it. University libraries will certainly have copies, and graduate courses in ecology may find some chapters worth examination. Ecological workers interested in global change and habitat fragmentation will find the volume useful for remaining current.—GEORGE F. BARROWCLOUGH, *Department of Ornithology, American Museum of Natural History, New York, New York 10024, USA.*

Biotic Interactions And Global Change

Jin-Ying Zhang



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